CDX-L400X

SERVICE MANUAL

AEP Model
UK Model

Ver 1.0 2001. 12

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-L350/L360
CD Drive Mechanism Type	MG-393X-121//Q
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

CD player section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	0.6% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms)

General

Outputs	Audio outputs Power aerial relay control lead
Inputs	Telephone ATT control lead
Tone controls	Bass ±9 dB at 100 Hz Treble ±9 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 177 mm (w/h/d)
Mounting dimension	Approx. 182 × 53 × 162 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

FM/MW/LW COMPACT DISC PLAYER

9-873-438-01
2001L0400-1
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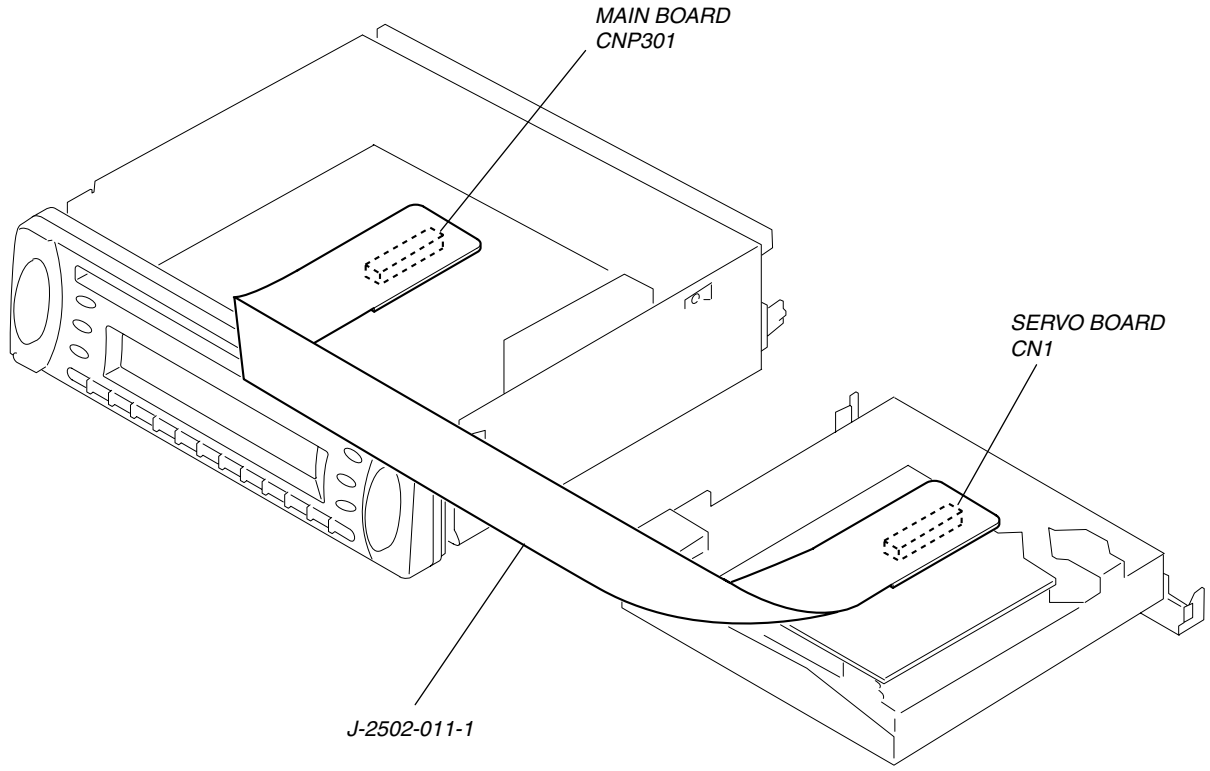
Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

• Connect the MAIN board (CNP301) and the SERVO board (CN1) with the extension cable (Part No. J-2502-011-1).



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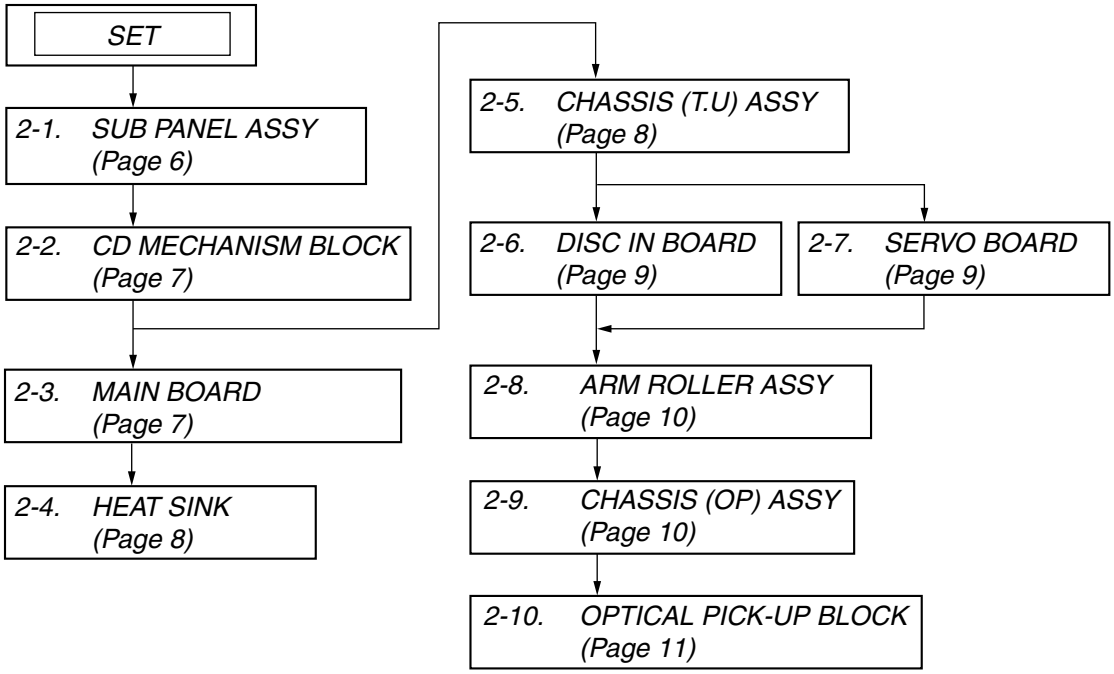
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.


SET
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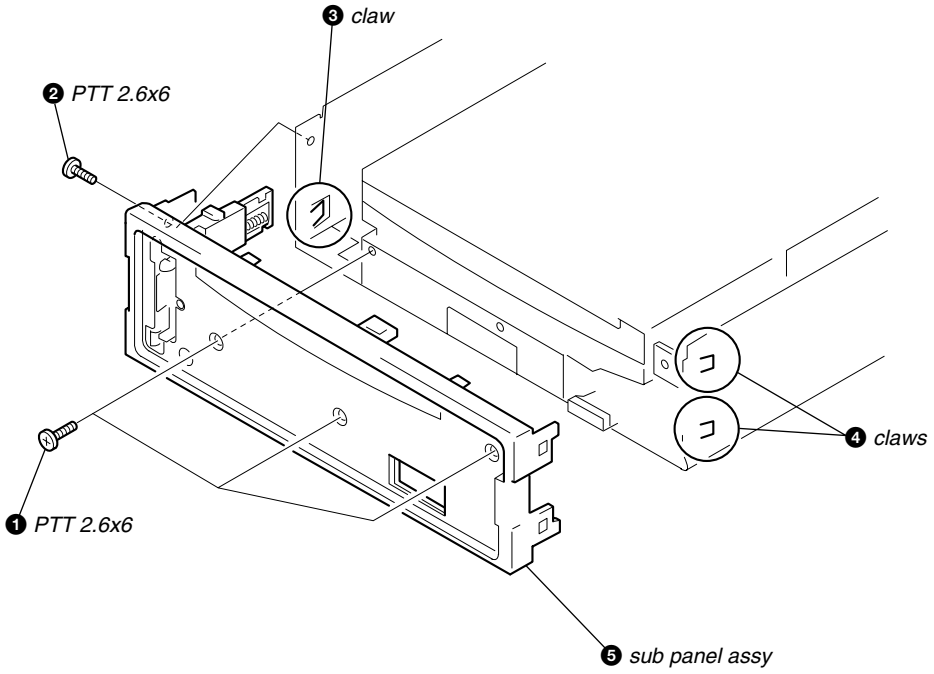
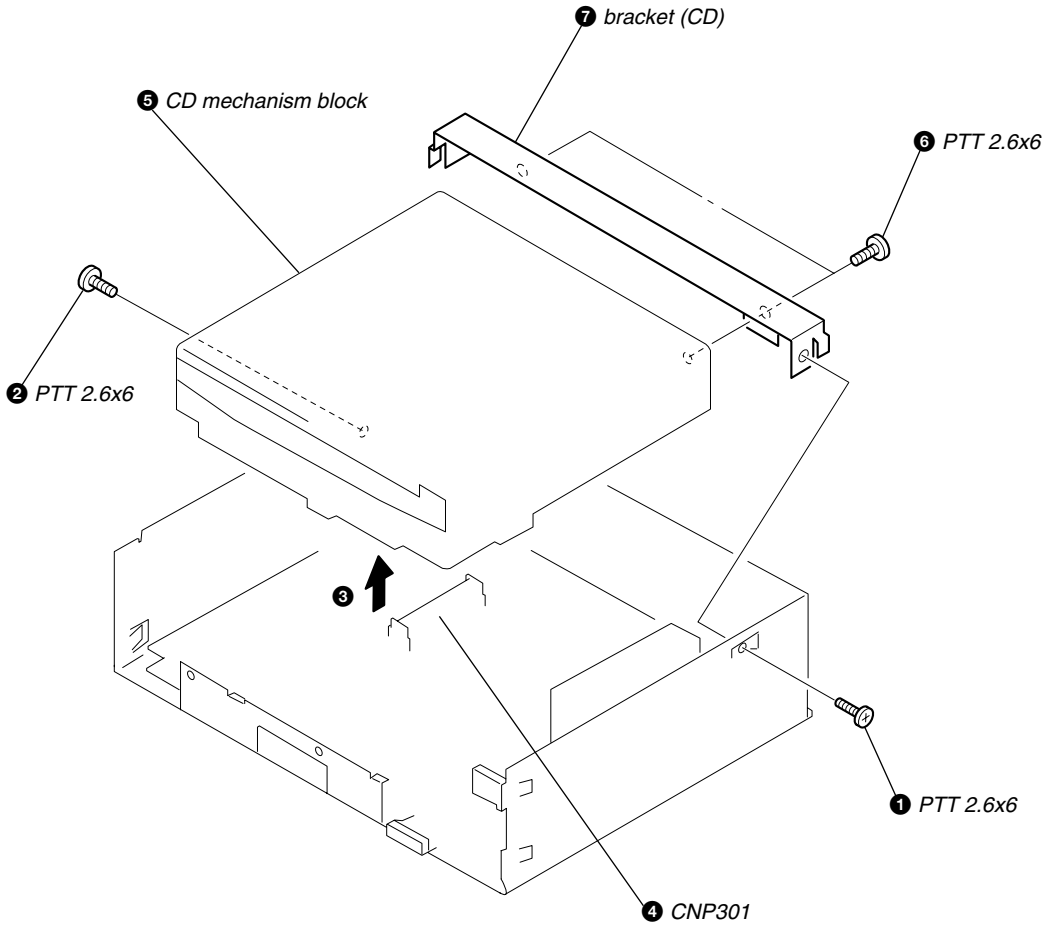
Note : Follow the disassembly procedure in the numerical order given.

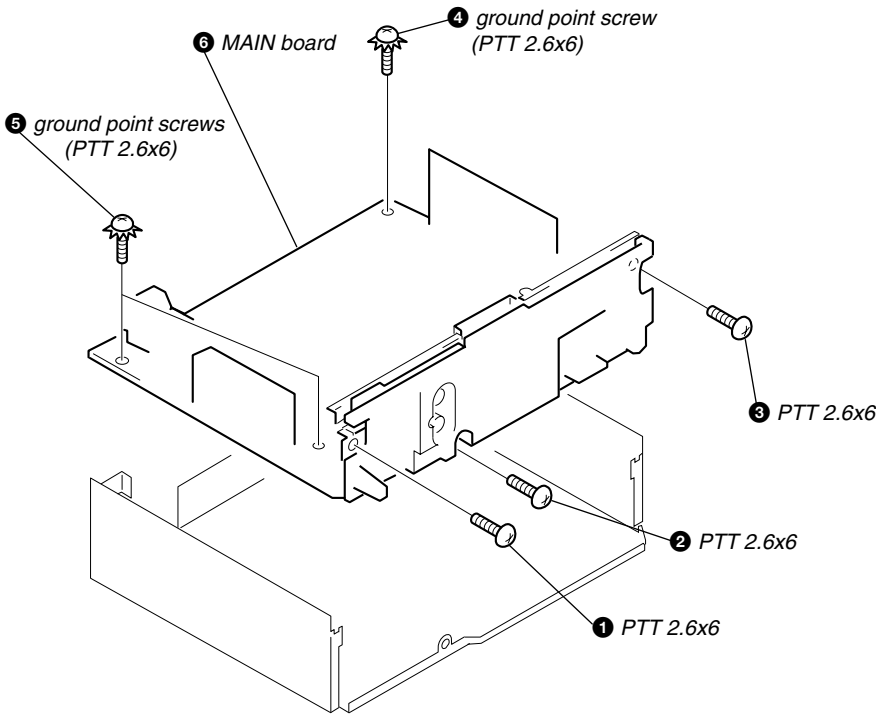
2-1. SUB PANEL ASSY



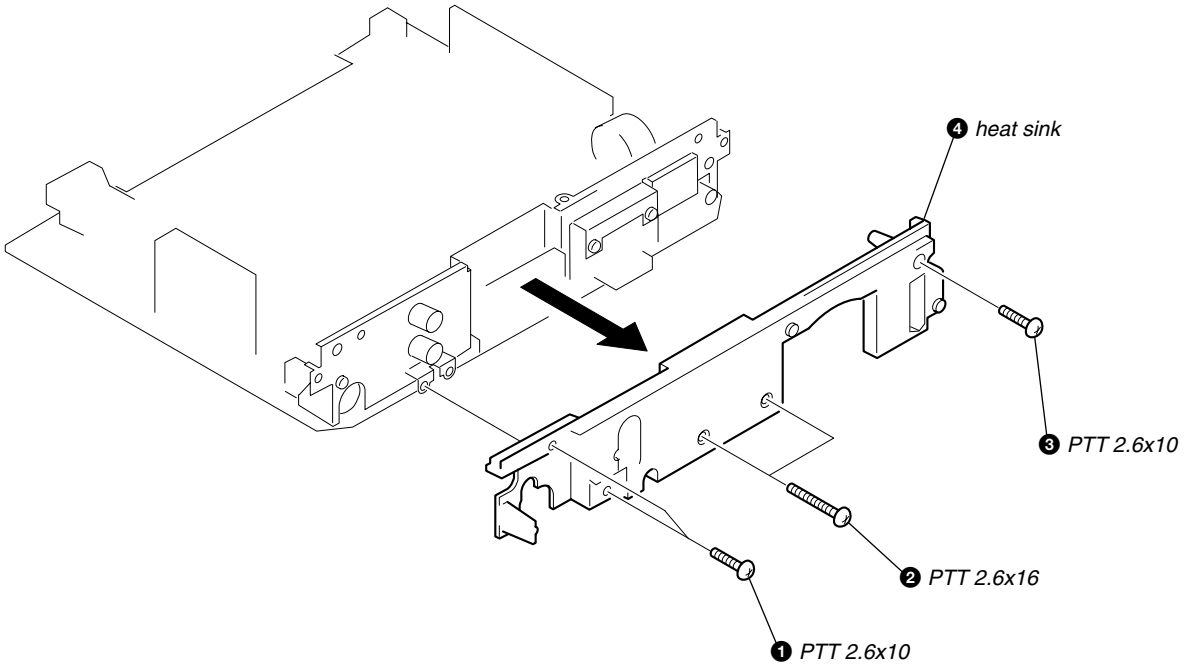
2-2. CD MECHANISM BLOCK



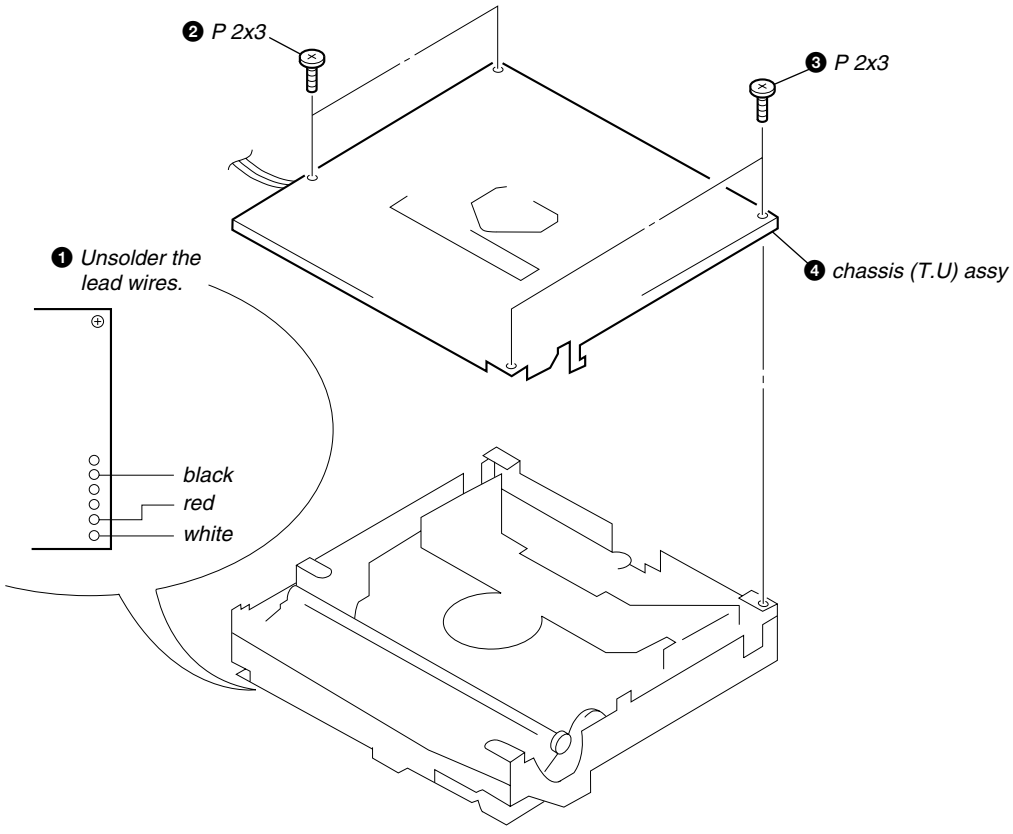
2-3. MAIN BOARD



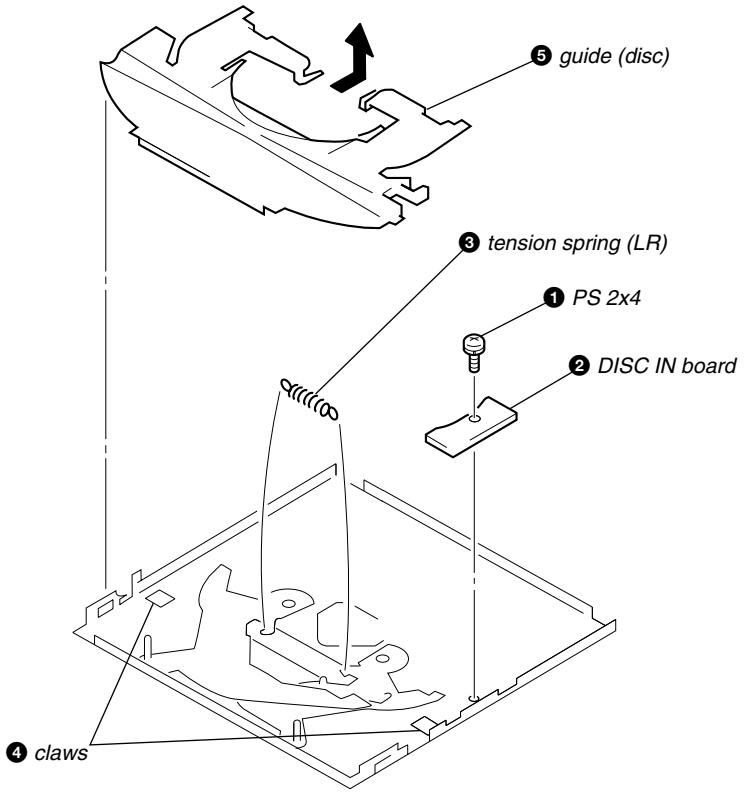
2-4. HEAT SINK



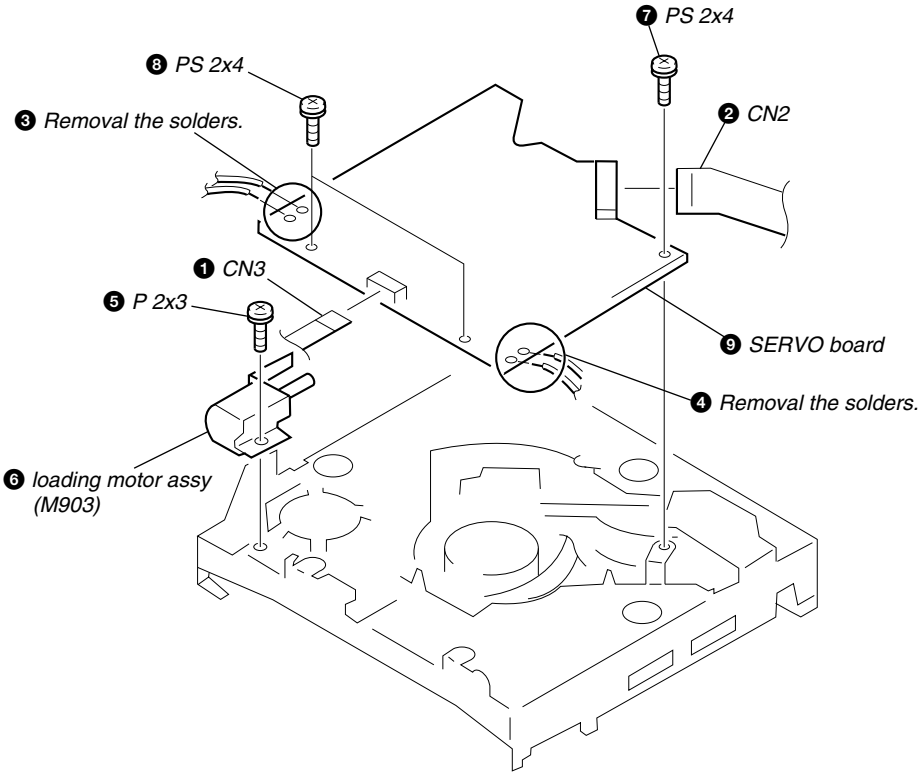
2-5. CHASSIS (T.U) ASSY



2-6. DISC IN BOARD



2-7. SERVO BOARD



2-8. ARM ROLLER ASSY

• When installing, take note of the positions arm (roller) and washers. (Fig. 1)

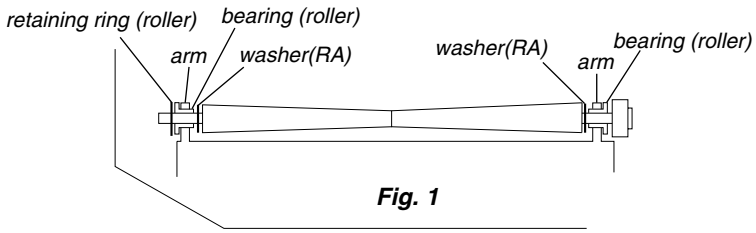
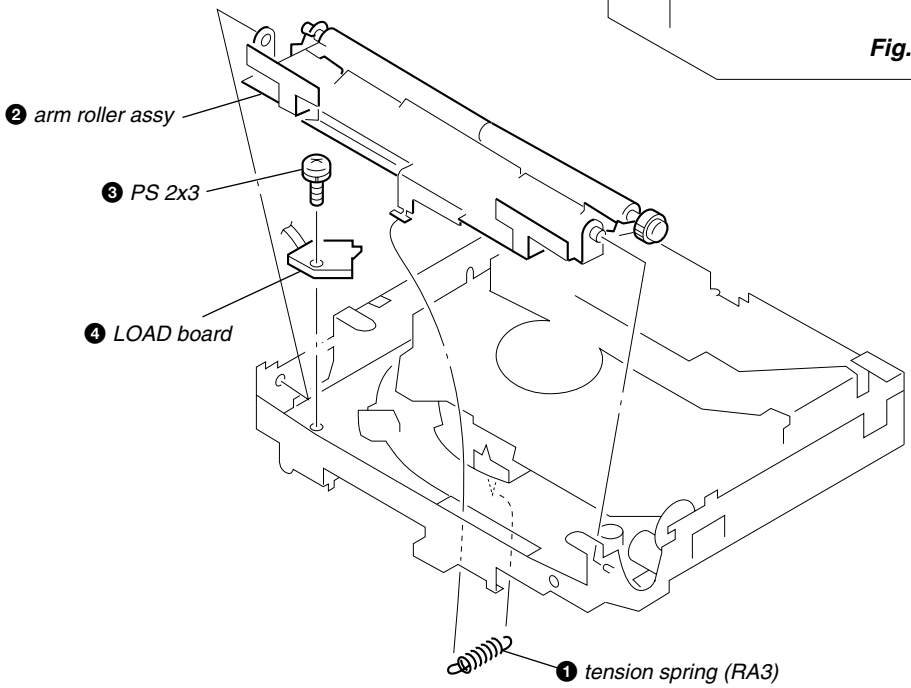
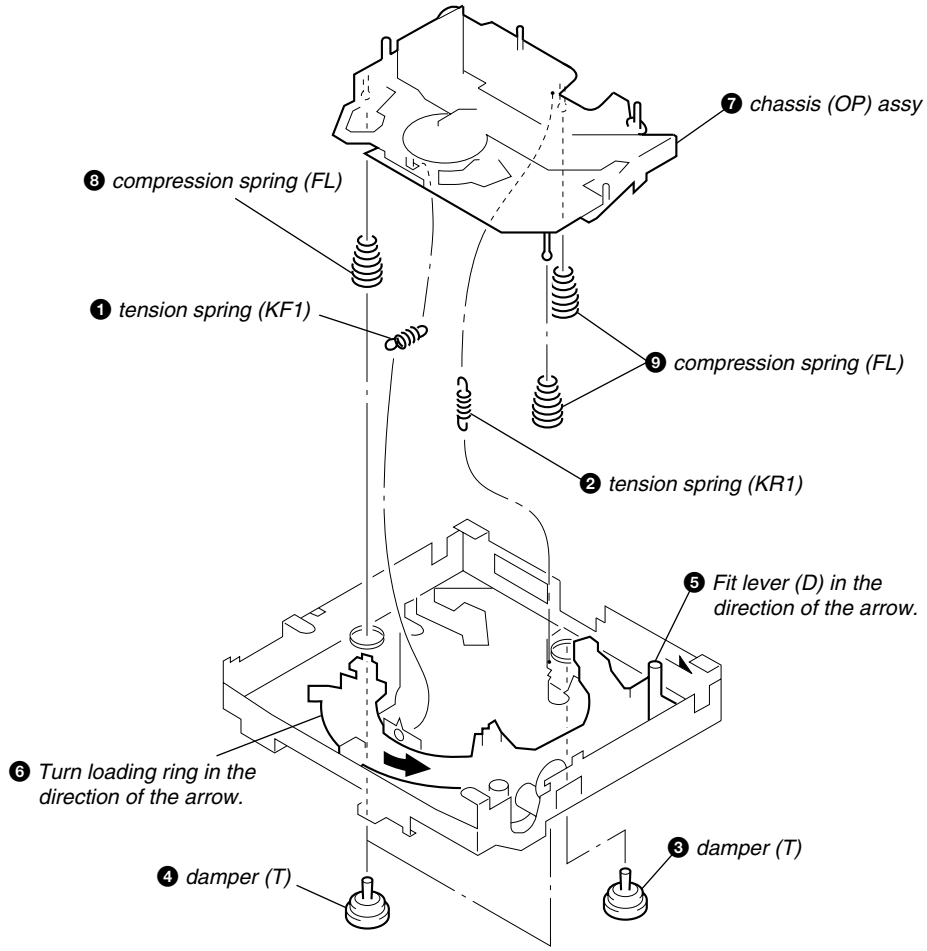


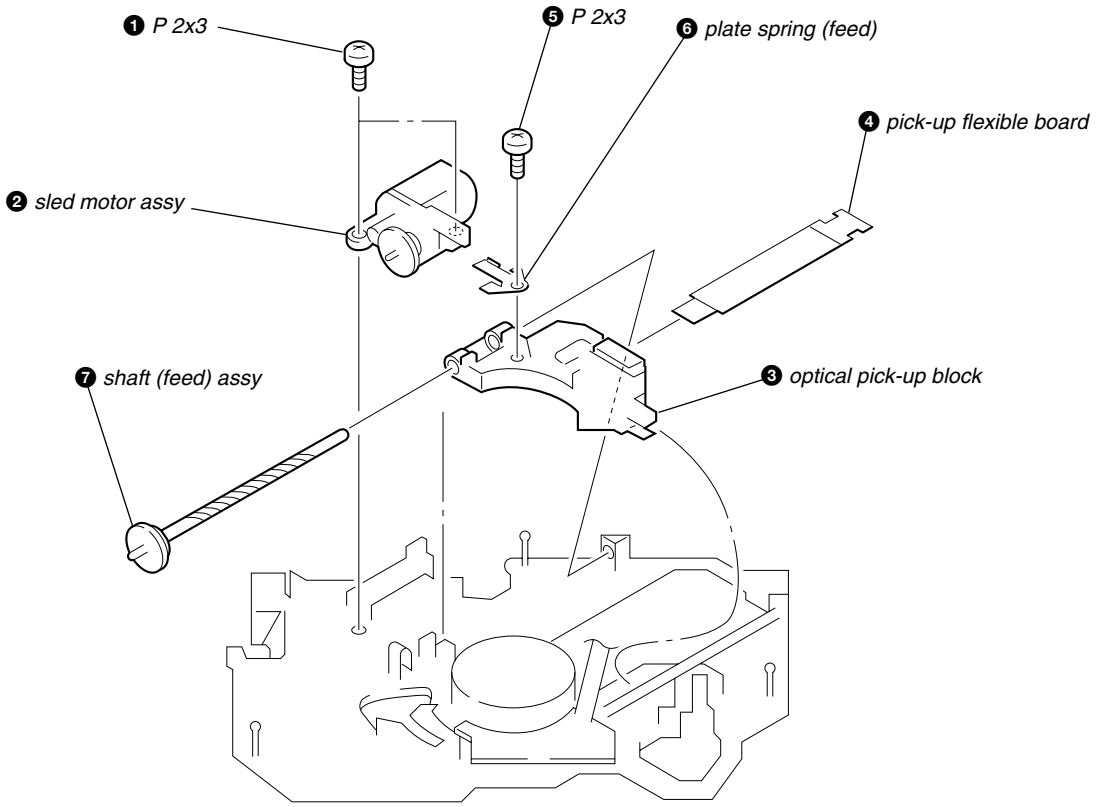
Fig. 1



2-9. CHASSIS (OP) ASSY


❼ chassis (OP) assy
❽ compression spring (FL)
❶ tension spring (KF1)
❾ compression spring (FL)
❷ tension spring (KR1)
❺ Fit lever (D) in the direction of the arrow.
❻ Turn loading ring in the direction of the arrow.
❸ damper (T)
❹ damper (T)

2-10. OPTICAL PICK-UP BLOCK



SECTION 3
DIAGRAMS

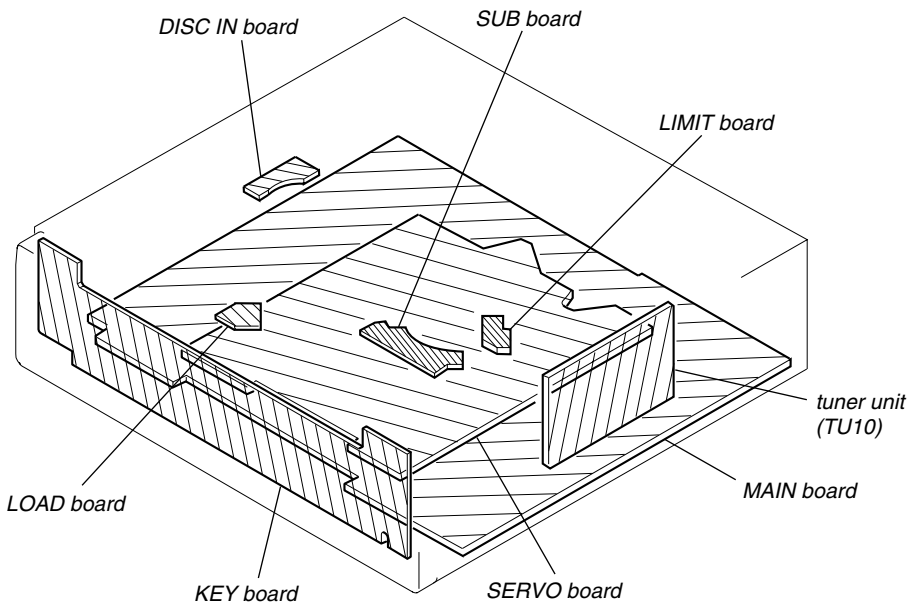
3-1. IC PIN DESCRIPTION

• IC501 MN101C49KTD2 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	VREF–	—	Rated voltage – for A/D converter.
2	VSM	I	S-meter voltage detection input
3	NC	—	Not used. (Connect to ground in this set)
4	KEYIN1	I	Key input 1
5	KEYIN0	I	Key input 0
6	RCIN0	I	Rotary commander input 0 (Fixed at L in this set)
7	QUALITY	I	Noise detection input
8	MPTH	I	Tuner multi-path detection input
9	NC	—	Not used. (Connect to ground in this set)
10	VREF+	—	Rated voltage + for A/D converter. (+5 V)
11	VDD	—	Power supply pin (+5 V)
12	OSCOUT	O	Oscillator output (18.432 MHz)
13	OSCIN	I	Oscillator input (18.432 MHz)
14	VSS	—	Ground
15	XIN	I	Oscillator input (32.768 kHz)
16	XOUT	O	Oscillator output (32.768 kHz)
17	MMOD	—	Mode selector (Connect to ground in this set)
18	LCDSO	O	LCD serial data output
19	LCDCE	O	LCD chip enable output
20	LCDCKO	O	LCD serial clock output
21	CD_TSO	O	CD text serial data output
22	CD_TSI	I	CD text serial data input
23	CD_TCKO	O	CD text serial clock output
24	NC	—	Not used. (Open)
25	NC	—	Not used. (Open)
26	KEY ACK	I	Key acknowledge detection input
27	DAVN	I	RDS data block synchro detection input
28	BUIN	I	Back-up power detection input
29	NC	I	Not used. (Connect to ground in this set)
30	CD_SELFSW	I	CD self switch input
31	CD_PACK	I	CD pack synchro signal input
32	NC (VCC)	—	Not used. (Connect to VDD in this set)
33	$\overline{\text{RESET}}$	I	Reset input
34	NC	—	Not used. (Fixed at H in this set)
35	BEEP	O	Beep output
36	NC	—	Not used. (Open)
37	$\overline{\text{TESTIN}}$	I	Test mode detection input
38	$\overline{\text{ACCIN}}$	I	Accessory power detection input
39	NC (VCC)	—	Not used. (Open)
40	TELATT	I	Telephone attenuate detection input
41	NC (VCC)	—	Not used. (Connect to VDD in this set)
42	UNISO	O	SONY BUS data output
43	UNISI	I	SONY BUS data input
44	UNICKO	O	SONY BUS clock output
45	I2C_SIO	I/O	I^2C BUS serial data input/output
46	NC	—	Not used. (Open)
47	I2C_CKO	O	I^2C BUS serial clock output
48	NC	—	Not used. (Open)
49	TUNON	O	Tuner power control output
50	PW_ON	O	System power control output
51	TSTB	O	CD text strobe output

Pin No.	Pin Name	I/O	Pin Description
52	RFOK	I	CD RFOK signal input
53	CD_RST	O	CD reset signal output
54	A0	O	CD command/parameter signal output
55	STB	O	CD strobe signal output
56	X_EN	O	CD crystal oscillator control output
57	LIMIT	I	CD limit switch input
58	PH1	I	Not used. (Fixed at H in this set)
59	D_SW	I	CD down switch input
60	INSW	I	CD disc in switch input
61	NC (PH3)	—	Not used. (Fixed at H in this set)
62	CD_LM_LO	O	Loading motor control output (Loading direction)
63	CD_LM_EJ	O	Loading motor control output (Eject direction)
64	NC	—	Not used. (Open)
65	NC	—	Not used. (Open)
66	$\overline{\text{AMPATT}}$	O	Power amplifier attenuator control output
67	AMPON	O	Power amplifier standby control output
68	CDMD_ON	O	CD mechanism power control output
69	ATT	O	System attenuate control output
70	$\overline{\text{VOLATT}}$	O	Electronic volume attenuate control output
71	NC	—	Not used. (Open)
72	NC	—	Not used. (Open)
73	NC	—	Not used. (Open)
74	NC	—	Not used. (Open)
75	NC	—	Not used. (Open)
76	NC	—	Not used. (Connect to ground in this set)
77	NC	—	Not used. (Connect to ground in this set)
78	DIMSEL	—	Not used. (Open)
79	XCD_ON	O	CD power control output
80	TU-ATT	—	Not used. (Open)
81	NC	—	Not used. (Open)
82	NC	—	Not used. (Open)
83	NC	—	Not used. (Open)
84	NC	—	Not used. (Open)
85	NC	—	Not used. (Open)
86	E2P_SIO	I/O	EEPROM serial data input/output
87	E2P_CKO	O	EEPROM serial clock output
88	NC	—	Not used. (Open)
89	FLASH_W	I	Flash write input
90	NS_MASK	O	Noise detection output
91	$\overline{\text{AD\_ON}}$	O	Key power control output
92	NC	—	Not used. (Open)
93	ILLON	O	Illumination power control output
94	$\overline{\text{DOORSW}}$	I	Not used. (Connect to ground in this set)
95	DAVSS	—	Ground for D/A converter.
96	NC	—	Not used. (Open)
97	NC	—	Not used. (Open)
98	RCIN1	I	Rotary commander input 1 (Fixed at L in this set)
99	RAMBU	—	Not used. (Connect to ground in this set)
100	DAVDD	—	D/A converter power supply pin (+5 V)

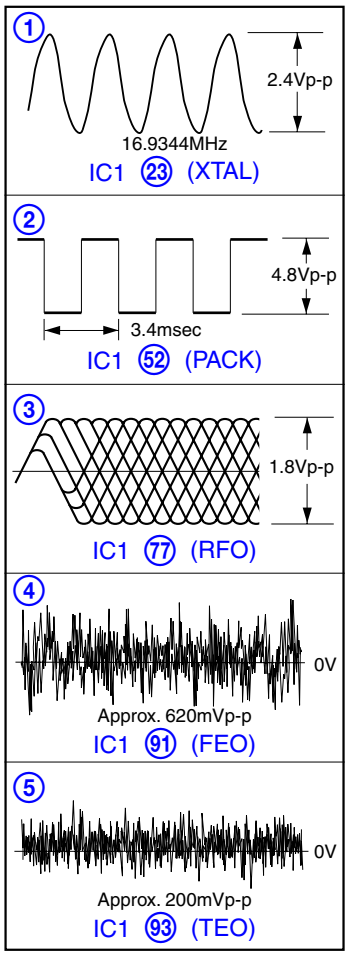
3-2. CIRCUIT BOARDS LOCATION



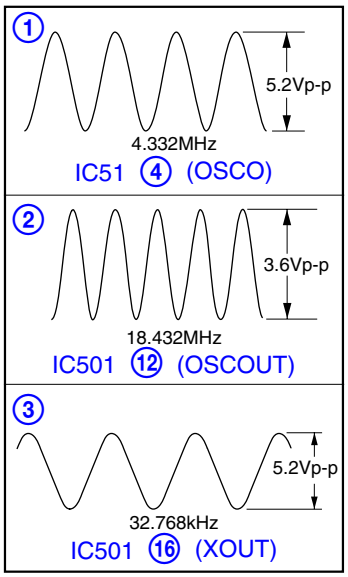
• Waveforms

— Servo Board —

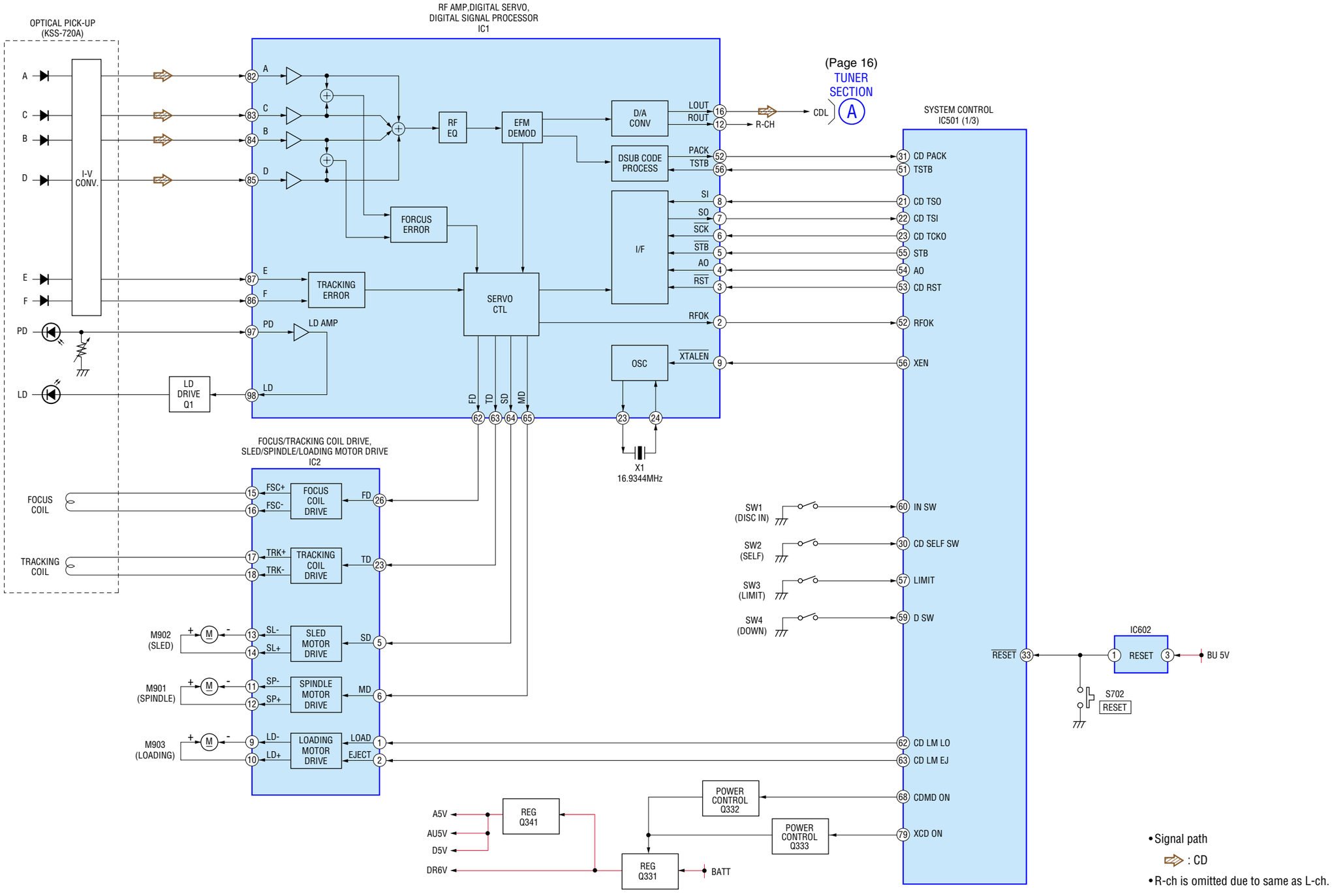
(MODE: CD PLAY)



— Main Board —

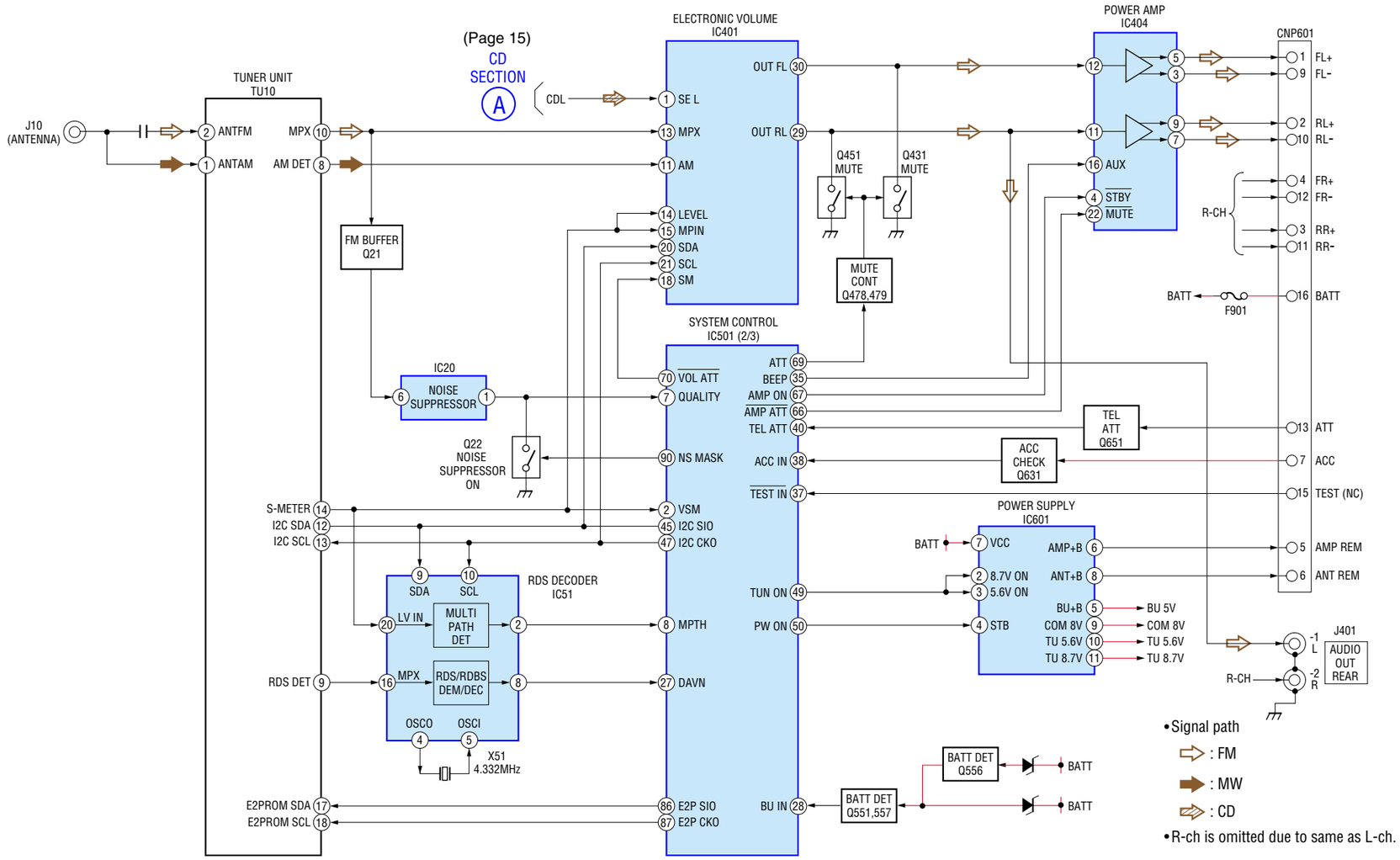


3-3. BLOCK DIAGRAM — CD SECTION —

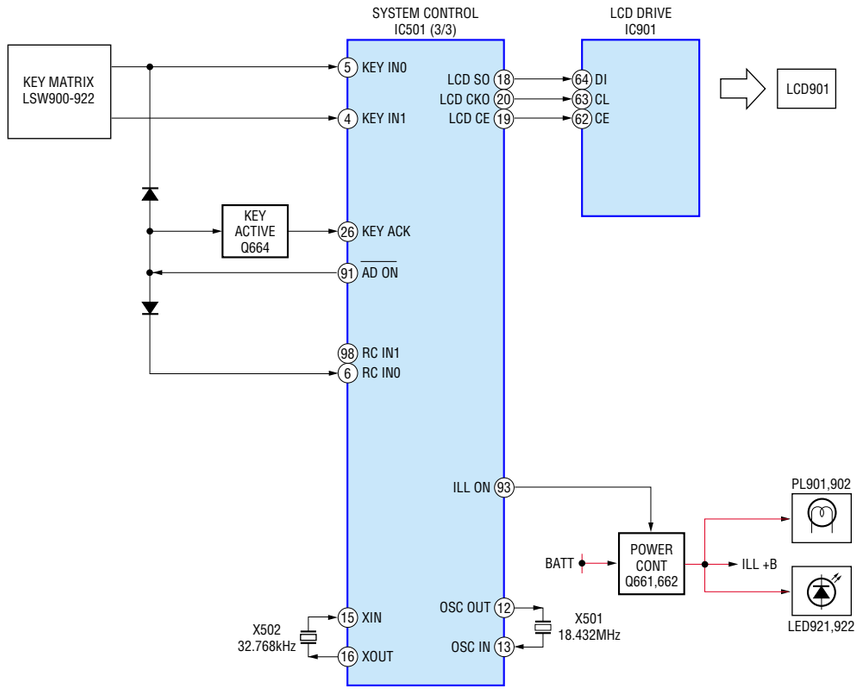


- Signal path
  ⇨ : CD
- R-ch is omitted due to same as L-ch.

3-4. BLOCK DIAGRAM — TUNER SECTION —



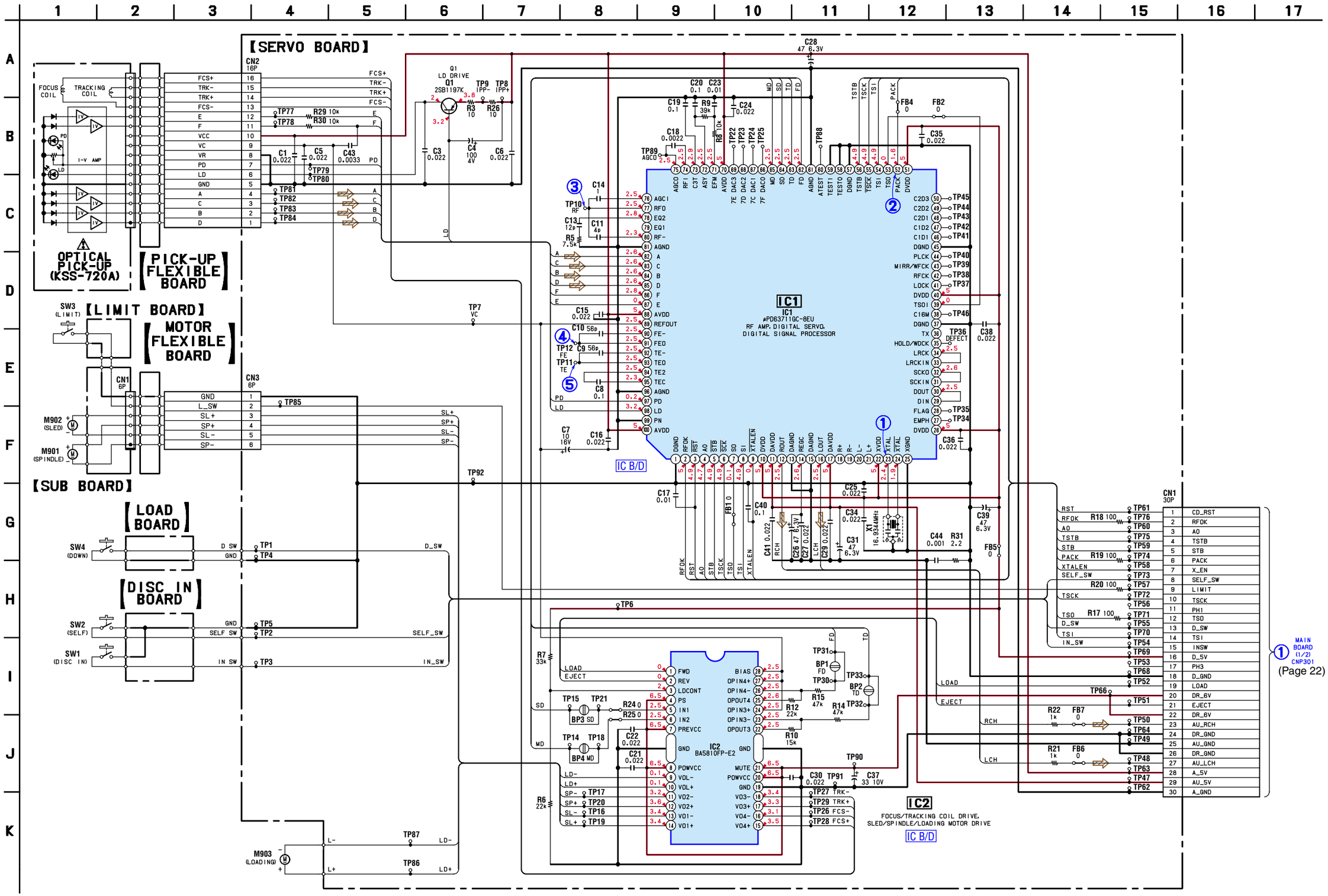
3-5. BLOCK DIAGRAM — DISPLAY SECTION —



• Refer to page 14 for Waveforms and page 18 for Common Note on Schematic Diagram.

3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION —

• Refer to page 26 for IC Block Diagrams.



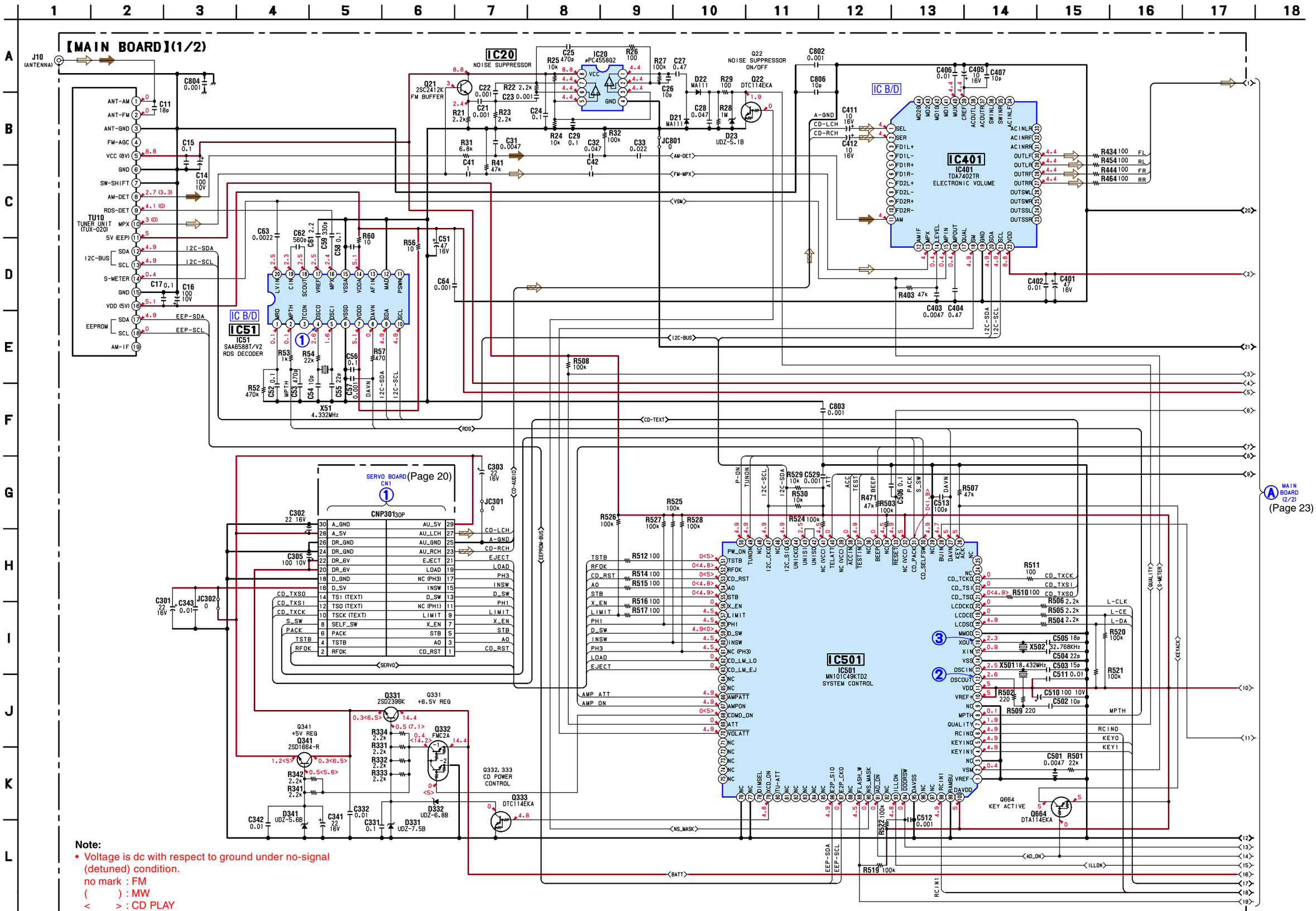
Note:

- Voltage is dc with respect to ground under no-signal conditions.
  no mark : CD PLAY

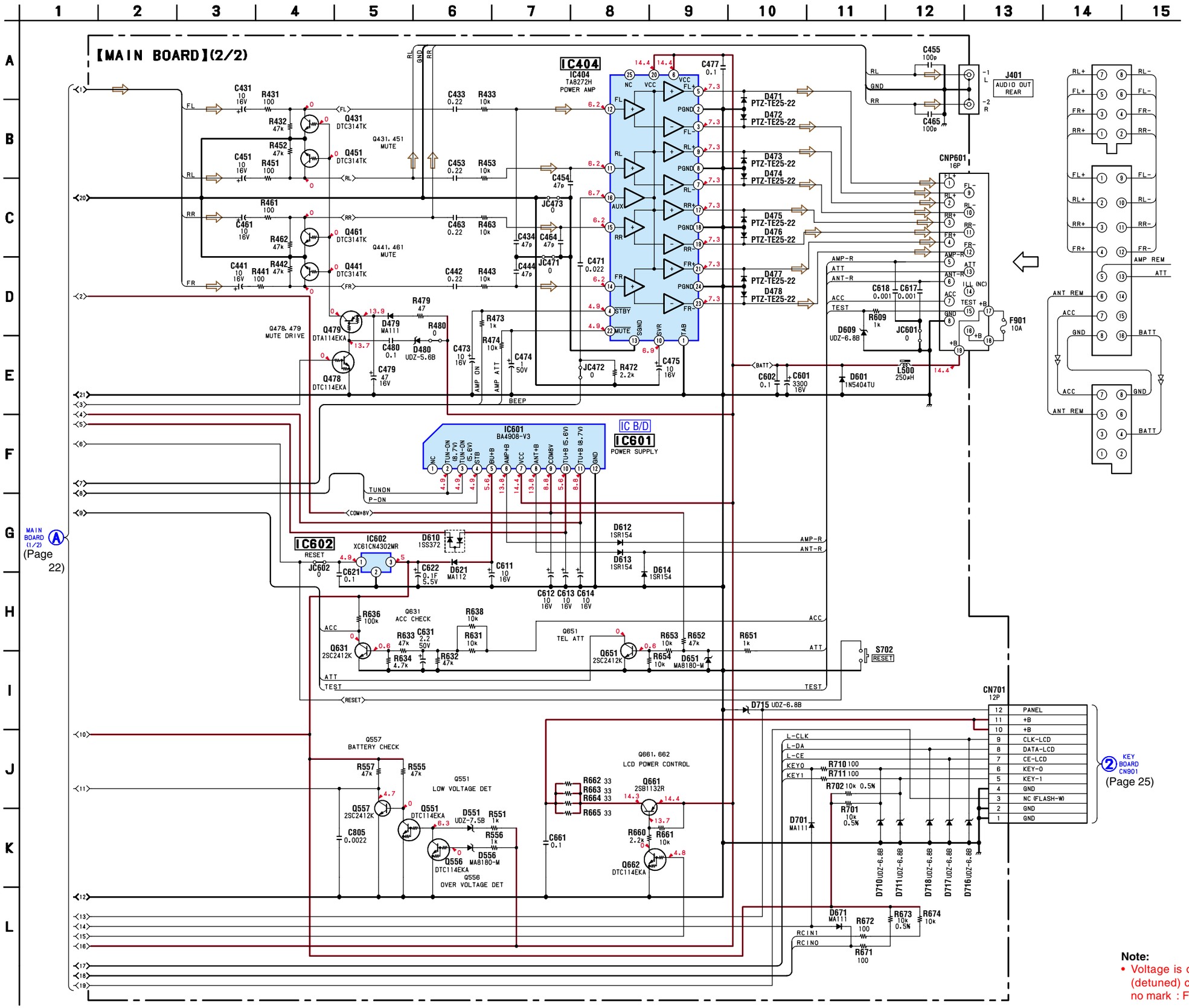
• Refer to page 14 for Waveforms and page 18 for Common Note on Schematic Diagram.

3-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —

• Refer to page 26 for IC Block Diagrams.

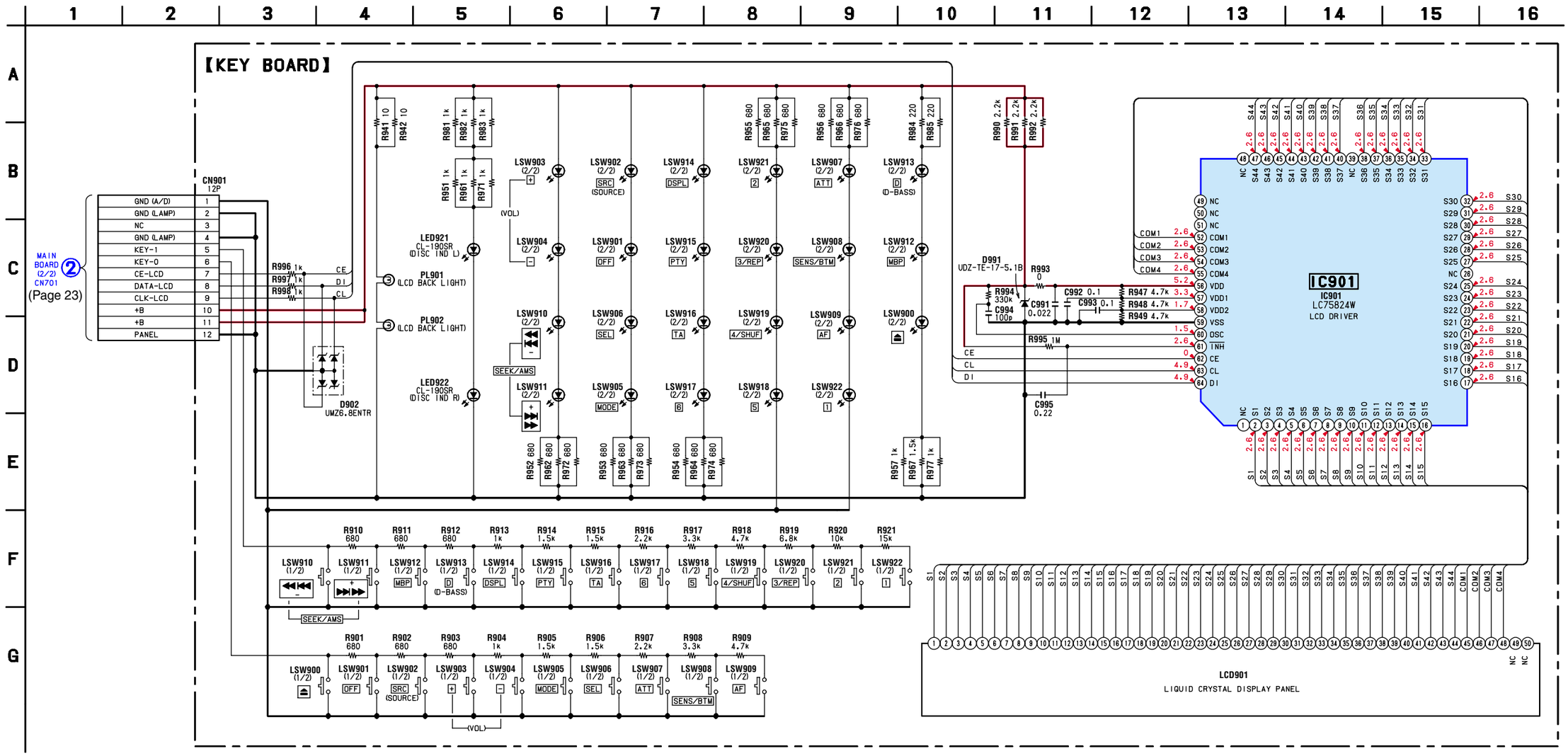


3-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 18 for Common Note on Schematic Diagram and page 26 for IC Block Diagrams.



Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

3-12. SCHEMATIC DIAGRAM — KEY SECTION — • Refer to page 18 for Common Note on Schematic Diagram.

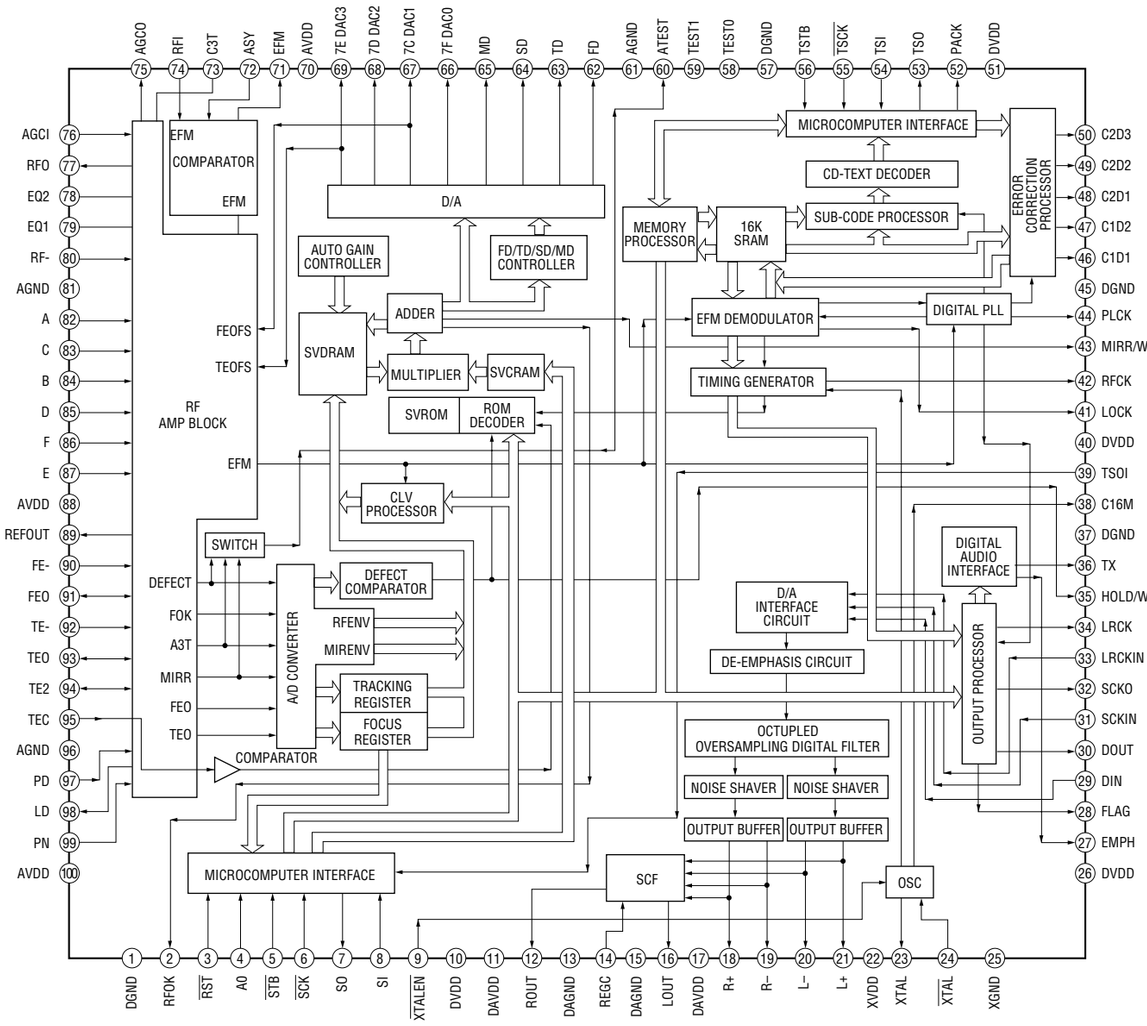


Note:

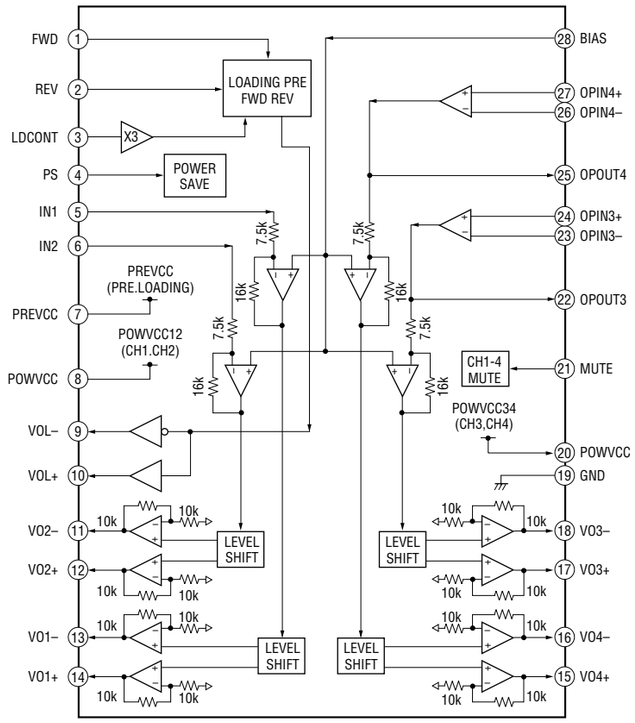
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

• **IC Block Diagrams**

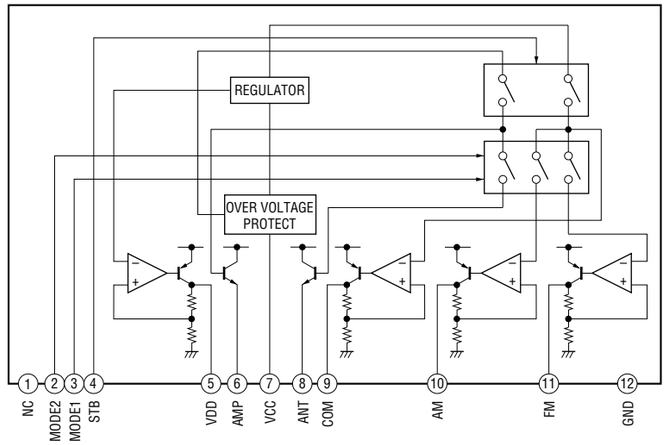
IC1 µPD63711GC-8EU



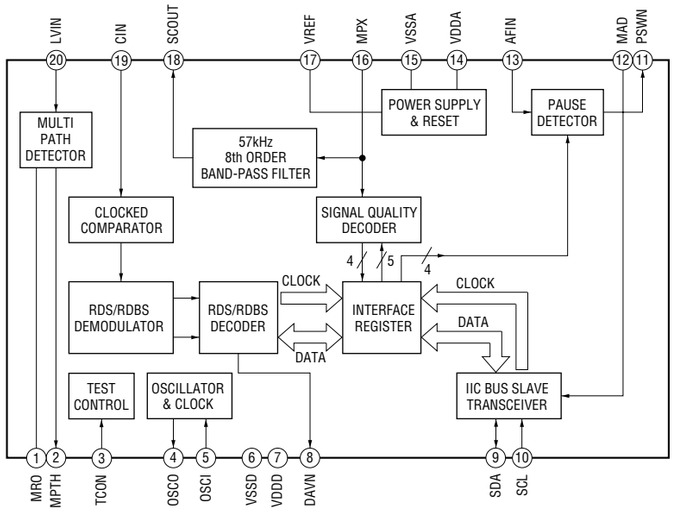
IC2 BA5810FP-E2



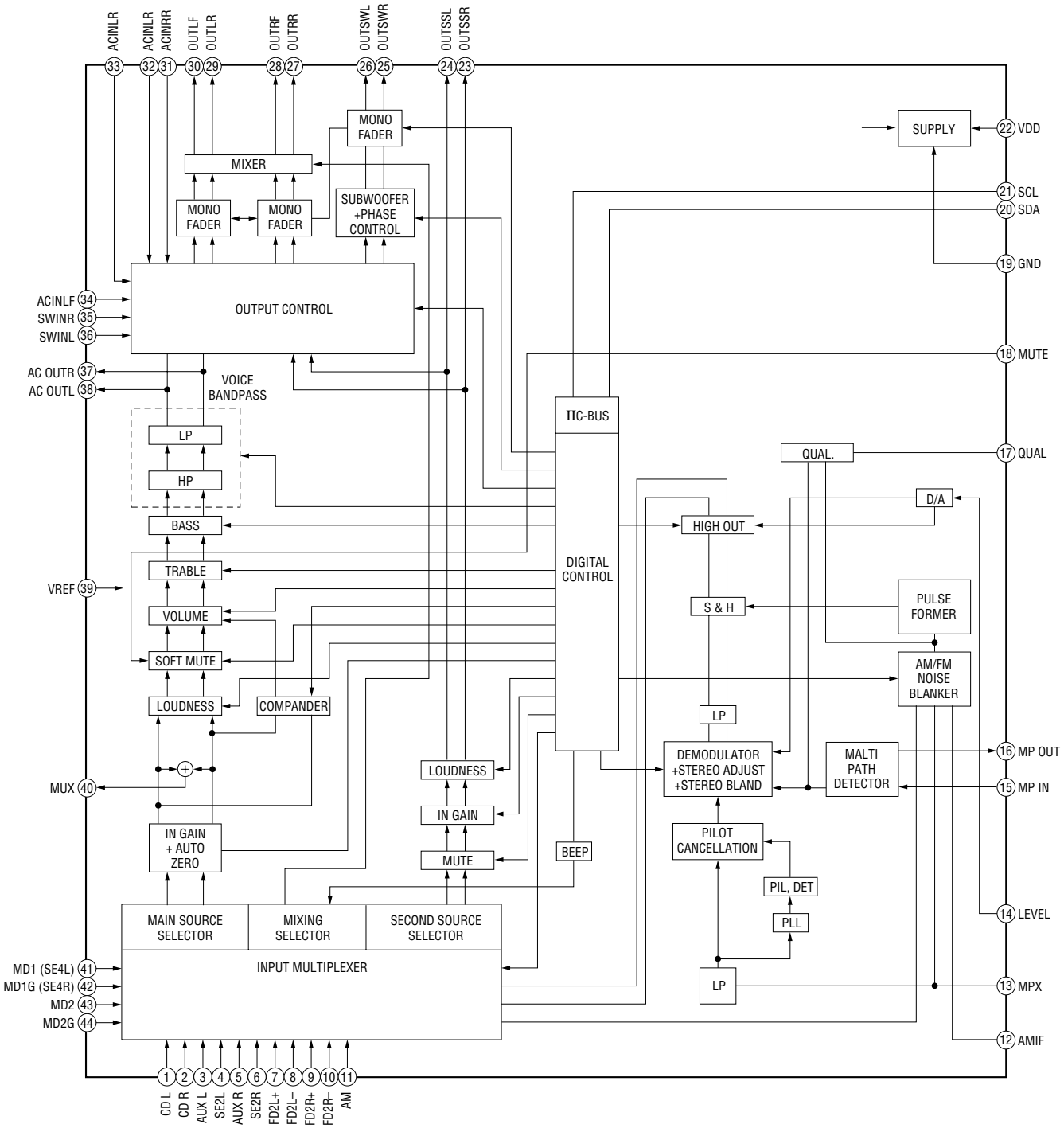
IC601 BA4908-V3



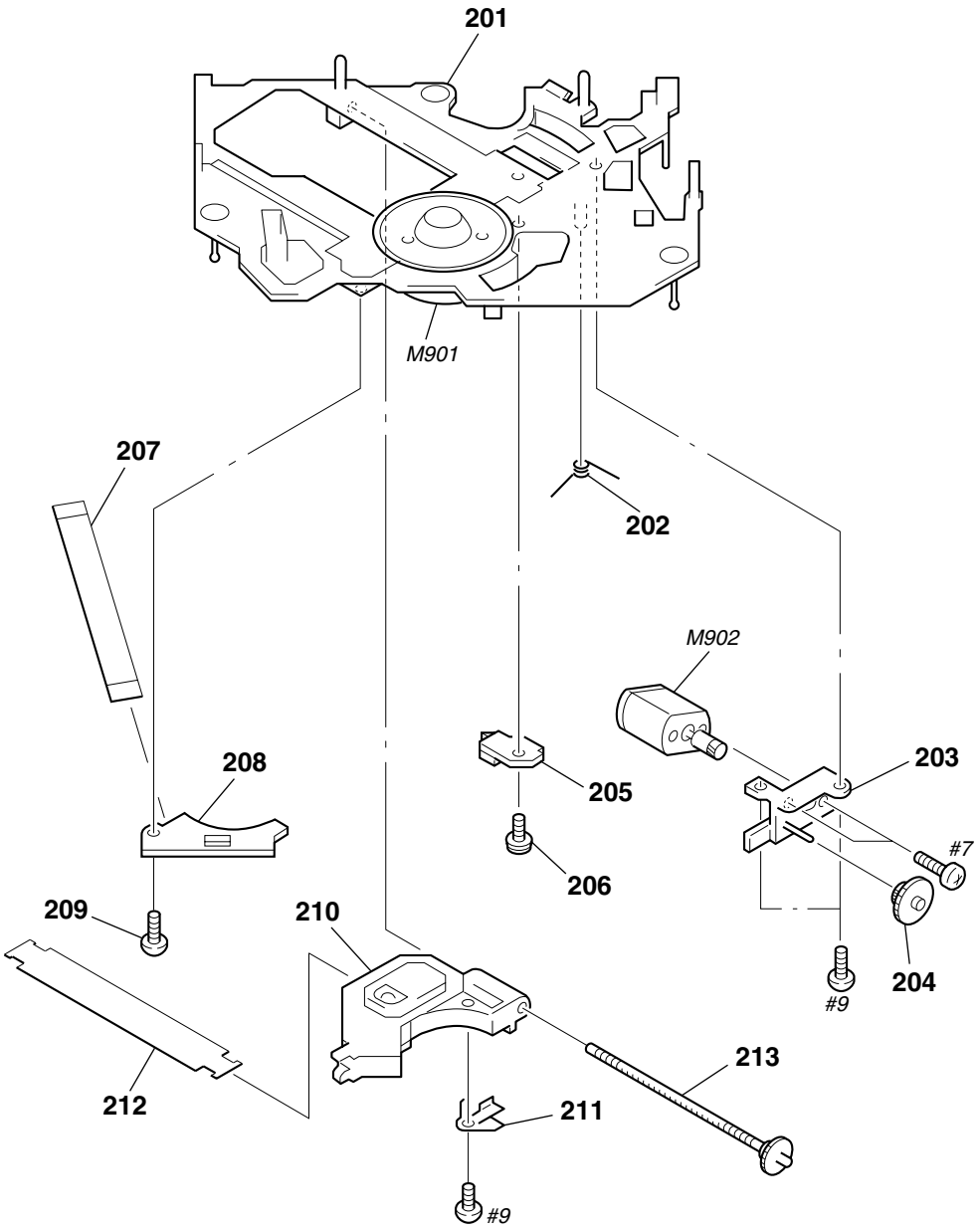
IC51 SAA6588T/V2



IC401 TDA7402TR



4-5. CD MECHANISM SECTION (3)
(MG-393X-121//Q)



The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
201	X-3378-598-2	CHASSIS (OP) ASSY (including M901)	
202	3-043-494-01	SPRING (SL), TORSION	
203	3-040-170-01	BASE (DRIVING)	
204	3-040-419-01	GEAR (MIDWAY)	
* 205	1-659-835-12	LIMIT BOARD	
206	3-338-737-01	SCREW (2X3), +PS	
207	1-659-880-11	MOTOR FLEXIBLE BOARD	
* 208	1-659-834-11	SUB BOARD	
209	3-909-607-01	SCREW	
⚠210	8-820-103-11	PICK-UP, OPTICAL KSS-720A/C-RP	
211	3-025-743-01	SPRING (FEED), LEAF	
212	1-676-707-21	PICK-UP FLEXIBLE BOARD	
213	A-3291-669-A	SHAFT (FEED) ASSY	
M902	A-3291-674-A	MOTOR ASSY, SLED (SLED)	
#7	7-627-850-28	SCREW, PRECISION +P 1.4X3	
#9	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	

SECTION 5
ELECTRICAL PARTS LIST

DISC IN | KEY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-659-836-11	DISC IN BOARD			
		**********			
		< SWITCH >			
SW1	1-529-566-31	SWITCH, PUSH (1 KEY) (DISC IN)			
SW2	1-529-566-31	SWITCH, PUSH (1 KEY) (SELF)			
**********					
		KEY BOARD			
		**********			
	1-694-781-11	CONDUCTIVE BOARD, CONNECTION			
	3-235-381-01	PLATE (LCD), LIGHT GUIDE			
	3-235-382-01	PLATE (LCD), GROUND			
	3-235-387-01	ILLUMINATOR (LCD)			
	3-235-388-01	REFLECTOR (LCD)			
		< CAPACITOR >			
C991	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C992	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C993	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C994	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C995	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
		< CONNECTOR >			
CN901	1-794-312-11	PIN, CONNECTOR 12P			
		< DIODE >			
D902	8-719-085-72	DIODE UMZ6.8ENTR			
D991	8-719-976-99	DIODE DTZ5.1B			
		< IC >			
IC901	8-759-365-90	IC LC75824W			
		< LIQUID CRYSTAL DISPLAY >			
LCD901	1-804-624-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< DIODE >			
LED921	8-719-061-16	LED CL-190SR-CD-T (DISC IND L)			
LED922	8-719-061-16	LED CL-190SR-CD-T (DISC IND R)			
		< SWITCH >			
LSW900	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (⏏)			
LSW901	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (OFF)			
LSW902	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SRC (SOURCE))			
LSW903	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (+ (VOL))			
LSW904	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (– (VOL))			
LSW905	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (MODE)			
LSW906	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SEL)			
LSW907	1-771-883-11	SWITCH, TACTILE (WITH LED) (ATT)			
LSW908	1-771-883-11	SWITCH, TACTILE (WITH LED) (SENS/BTM)			
LSW909	1-771-883-11	SWITCH, TACTILE (WITH LED) (AF)			
LSW910	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (◀◀ I◀◀ – (SEEK/AMS))			
LSW911	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (+ ▶▶I ▶▶ (SEEK/AMS))			
LSW912	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (MBP)			
LSW913	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (D (D-BASS))			
LSW914	1-771-883-11	SWITCH, TACTILE (WITH LED) (DSPL)			
LSW915	1-771-883-11	SWITCH, TACTILE (WITH LED) (PTY)			
LSW916	1-771-883-11	SWITCH, TACTILE (WITH LED) (TA)			
LSW917	1-771-883-11	SWITCH, TACTILE (WITH LED) (6)			
LSW918	1-771-883-11	SWITCH, TACTILE (WITH LED) (5)			
LSW919	1-771-883-11	SWITCH, TACTILE (WITH LED) (4/SHUF)			
LSW920	1-771-883-11	SWITCH, TACTILE (WITH LED) (3/REP)			
LSW921	1-771-883-11	SWITCH, TACTILE (WITH LED) (2)			
LSW922	1-771-883-11	SWITCH, TACTILE (WITH LED) (1)			
		< PILOT LAMP >			
PL901	1-518-743-11	LAMP, PILOT (LCD BACK LIGHT)			
PL902	1-518-743-11	LAMP, PILOT (LCD BACK LIGHT)			
		< RESISTOR >			
R901	1-216-819-11	METAL CHIP	680	5%	1/16W
R902	1-216-819-11	METAL CHIP	680	5%	1/16W
R903	1-216-819-11	METAL CHIP	680	5%	1/16W
R904	1-216-821-11	METAL CHIP	1K	5%	1/16W
R905	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R906	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R907	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R908	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R909	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R910	1-216-819-11	METAL CHIP	680	5%	1/16W
R911	1-216-819-11	METAL CHIP	680	5%	1/16W
R912	1-216-819-11	METAL CHIP	680	5%	1/16W
R913	1-216-821-11	METAL CHIP	1K	5%	1/16W
R914	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R915	1-216-823-11	METAL CHIP	1.5K	5%	1/16W

KEY **LIMIT** **LOAD** **MAIN**

Ref. No.	Part No.	Description			Remark
R916	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R917	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R918	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R919	1-218-867-11	RES-CHIP	6.8K	5%	1/16W
R920	1-216-833-11	METAL CHIP	10K	5%	1/16W
R921	1-216-835-11	METAL CHIP	15K	5%	1/16W
R941	1-216-797-11	METAL CHIP	10	5%	1/16W
R942	1-216-797-11	METAL CHIP	10	5%	1/16W
R947	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R948	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R949	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R951	1-216-821-11	METAL CHIP	1K	5%	1/16W
R952	1-216-819-11	METAL CHIP	680	5%	1/16W
R953	1-216-819-11	METAL CHIP	680	5%	1/16W
R954	1-216-819-11	METAL CHIP	680	5%	1/16W
R955	1-216-819-11	METAL CHIP	680	5%	1/16W
R956	1-216-819-11	METAL CHIP	680	5%	1/16W
R957	1-216-821-11	METAL CHIP	1K	5%	1/16W
R961	1-216-821-11	METAL CHIP	1K	5%	1/16W
R962	1-216-819-11	METAL CHIP	680	5%	1/16W
R963	1-216-819-11	METAL CHIP	680	5%	1/16W
R964	1-216-819-11	METAL CHIP	680	5%	1/16W
R965	1-216-819-11	METAL CHIP	680	5%	1/16W
R966	1-216-819-11	METAL CHIP	680	5%	1/16W
R967	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R971	1-216-821-11	METAL CHIP	1K	5%	1/16W
R972	1-216-819-11	METAL CHIP	680	5%	1/16W
R973	1-216-819-11	METAL CHIP	680	5%	1/16W
R974	1-216-819-11	METAL CHIP	680	5%	1/16W
R975	1-216-819-11	METAL CHIP	680	5%	1/16W
R976	1-216-819-11	METAL CHIP	680	5%	1/16W
R977	1-216-821-11	METAL CHIP	1K	5%	1/16W
R981	1-216-821-11	METAL CHIP	1K	5%	1/16W
R982	1-216-821-11	METAL CHIP	1K	5%	1/16W
R983	1-216-821-11	METAL CHIP	1K	5%	1/16W
R984	1-216-813-11	METAL CHIP	220	5%	1/16W
R985	1-216-813-11	METAL CHIP	220	5%	1/16W
R990	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R991	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R992	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R993	1-216-864-11	METAL CHIP	0	5%	1/16W
R994	1-216-851-11	METAL CHIP	330K	5%	1/16W
R995	1-216-857-11	METAL CHIP	1M	5%	1/16W
R996	1-216-821-11	METAL CHIP	1K	5%	1/16W
R997	1-216-821-11	METAL CHIP	1K	5%	1/16W
R998	1-216-821-11	METAL CHIP	1K	5%	1/16W

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Ref. No.	Part No.	Description	Remark
*	1-659-835-12	LIMIT BOARD	
		**********	
		< SWITCH >	
SW3	1-529-565-41	SWITCH, PUSH (1 KEY) (LIMIT)	

****

*	1-659-837-11	LOAD BOARD	
		**********	
		< SWITCH >	
SW4	1-529-566-31	SWITCH, PUSH (1 KEY) (DOWN)	

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	A-3340-220-A	MAIN BOARD, COMPLETE	
		**********	
*	3-040-998-01	BRACKET (IC)	
*	3-225-136-01	HEAT SINK (REG)	
*	3-225-271-02	CHASSIS (BACK)	
	3-235-386-01	HEAT SINK (CD)	
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
	7-685-793-09	SCREW +PTT 2.6X8 (S)	
	7-685-795-09	SCREW +PTT 2.6X12 (S)	
	7-685-797-09	SCREW +PTT 2.6X16 (S)	
		< CAPACITOR >	

C11	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C14	1-124-584-00	ELECT	100uF	20%	10V
C15	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C16	1-124-584-00	ELECT	100uF	20%	10V
C17	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C22	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C23	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C24	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C25	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C26	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C27	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C28	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C29	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C31	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C32	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C33	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C41	1-125-837-00	CERAMIC CHIP	1uF	10%	6.3V
C42	1-125-837-00	CERAMIC CHIP	1uF	10%	6.3V
C51	1-124-589-11	ELECT	47uF	20%	16V
C52	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C53	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C54	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C55	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C56	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C57	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C58	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C59	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C61	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C62	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C63	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C64	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-124-234-00	ELECT	22uF	20%	16V
C302	1-124-234-00	ELECT	22uF	20%	16V
C303	1-124-234-00	ELECT	22uF	20%	16V
C305	1-124-584-00	ELECT	100uF	20%	10V
C331	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C332	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C341	1-124-234-00	ELECT	22uF	20%	16V
C342	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C343	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C401	1-124-589-11	ELECT	47uF	20%	16V
C402	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C403	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C404	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C405	1-124-233-11	ELECT	10uF	20%	16V
C406	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C407	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C411	1-124-233-11	ELECT	10uF	20%	16V
C412	1-124-233-11	ELECT	10uF	20%	16V
C431	1-124-233-11	ELECT	10uF	20%	16V
C433	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C434	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C441	1-124-233-11	ELECT	10uF	20%	16V
C442	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C444	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C451	1-124-233-11	ELECT	10uF	20%	16V
C453	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C454	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C455	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C461	1-124-233-11	ELECT	10uF	20%	16V
C463	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C464	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C465	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C471	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C473	1-124-233-11	ELECT	10uF	20%	16V
C474	1-126-160-11	ELECT	1uF	20%	50V
C475	1-126-157-11	ELECT	10uF	20%	16V
C477	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C479	1-124-589-11	ELECT	47uF	20%	16V
C480	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C501	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C502	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C503	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C504	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C505	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C510	1-124-584-00	ELECT	100uF	20%	10V
C511	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C513	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C529	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-135-473-21	ELECT	3300uF	20%	16V
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C611	1-126-157-11	ELECT	10uF	20%	16V
C612	1-126-157-11	ELECT	10uF	20%	16V
C613	1-126-157-11	ELECT	10uF	20%	16V
C614	1-126-157-11	ELECT	10uF	20%	16V
C617	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C618	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C621	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C622	1-125-710-11	DOUBLE LAYERS	0.1F		5.5V
C631	1-124-257-00	ELECT	2.2uF	20%	50V
C661	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C802	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C803	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C804	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C805	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C806	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V

< CONNECTOR >

CN701	1-794-311-21	PLUG, CONNECTOR 12P
CNP301	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P
CNP601	1-774-701-11	PIN, CONNECTOR 16P

< DIODE >

D21	8-719-404-50	DIODE MA111-TX
D22	8-719-404-50	DIODE MA111-TX
D23	8-719-976-99	DIODE DTZ5.1B
D331	8-719-056-84	DIODE UDZ-TE-17-7.5B
D332	8-719-056-83	DIODE UDZ-TE-17-6.8B
D341	8-719-158-15	DIODE RD5.6S-B
D471	8-719-079-55	DIODE PTZ-TE25-22
D472	8-719-079-55	DIODE PTZ-TE25-22
D473	8-719-079-55	DIODE PTZ-TE25-22
D474	8-719-079-55	DIODE PTZ-TE25-22
D475	8-719-079-55	DIODE PTZ-TE25-22
D476	8-719-079-55	DIODE PTZ-TE25-22
D477	8-719-079-55	DIODE PTZ-TE25-22
D478	8-719-079-55	DIODE PTZ-TE25-22
D479	8-719-404-50	DIODE MA111-TX
D480	8-719-158-15	DIODE RD5.6S-B
D551	8-719-056-84	DIODE UDZ-TE-17-7.5B
D556	8-719-057-80	DIODE MA8180-M-TX
D601	8-719-049-38	DIODE 1N5404TU
D609	8-719-056-83	DIODE UDZ-TE-17-6.8B
D610	8-719-056-65	DIODE 1SS372-TE85L
D612	8-719-053-18	DIODE 1SR154-400TE-25
D613	8-719-053-18	DIODE 1SR154-400TE-25
D614	8-719-053-18	DIODE 1SR154-400TE-25
D621	8-719-067-56	DIODE MA112-TX
D651	8-719-057-80	DIODE MA8180-M-TX
D671	8-719-404-50	DIODE MA111-TX

MAIN

Ref. No.	Part No.	Description	Remark
D701	8-719-404-50	DIODE MA111-TX	
D710	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D711	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D715	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D716	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D717	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D718	8-719-056-83	DIODE UDZ-TE-17-6.8B	
		< IC >	
IC20	8-759-100-96	IC uPC4558G2	
IC51	8-759-492-59	IC SAA6588T-118	
IC401	8-759-653-27	IC TDA7402TR	
IC404	8-759-827-12	IC TA8272H	
IC501	6-800-278-02	IC MN101C49KTD2	
IC601	8-759-661-47	IC BA4908-V3	
IC602	8-759-682-69	IC XC61CN4302MR	
		< JACK >	
J10	1-815-185-12	JACK (ANTENNA)	
J401	1-774-698-11	JACK, PIN 2P (AUDIO OUT REAR)	
		< JUMPER RESISTOR >	
JC301	1-216-864-11	METAL CHIP 0 5%	1/16W
JC302	1-216-864-11	METAL CHIP 0 5%	1/16W
JC471	1-216-296-11	SHORT 0	
JC472	1-216-864-11	METAL CHIP 0 5%	1/16W
JC473	1-216-296-11	SHORT 0	
JC601	1-216-296-11	SHORT 0	
JC602	1-216-296-11	SHORT 0	
JC801	1-216-296-11	SHORT 0	
		< COIL >	
L500	1-419-476-11	COIL, CHOKE 250uH	
		< TRANSISTOR >	
Q21	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q22	8-729-900-53	TRANSISTOR DTC114EK	
Q331	8-729-021-82	TRANSISTOR 2SD2396K	
Q332	8-729-047-76	TRANSISTOR FMC2A-T148	
Q333	8-729-900-53	TRANSISTOR DTC114EK	
Q341	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q431	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q441	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q451	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q461	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q478	8-729-900-53	TRANSISTOR DTC114EK	
Q479	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q551	8-729-900-53	TRANSISTOR DTC114EK	
Q556	8-729-900-53	TRANSISTOR DTC114EK	
Q557	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q631	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q651	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

Ref. No.	Part No.	Description	Remark
Q661	8-729-106-60	TRANSISTOR 2SB1115A	
Q662	8-729-900-53	TRANSISTOR DTC114EK	
Q664	8-729-027-23	TRANSISTOR DTA114EKA-T146	
		< RESISTOR >	
R21	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R22	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R23	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R24	1-216-833-11	METAL CHIP 10K 5%	1/16W
R25	1-216-833-11	METAL CHIP 10K 5%	1/16W
R26	1-216-809-11	METAL CHIP 100 5%	1/16W
R27	1-216-845-11	METAL CHIP 100K 5%	1/16W
R28	1-216-857-11	METAL CHIP 1M 5%	1/16W
R29	1-216-809-11	METAL CHIP 100 5%	1/16W
R31	1-218-867-11	RES-CHIP 6.8K 5%	1/16W
R32	1-216-845-11	METAL CHIP 100K 5%	1/16W
R41	1-216-841-11	METAL CHIP 47K 5%	1/16W
R52	1-216-853-11	METAL CHIP 470K 5%	1/16W
R53	1-216-821-11	METAL CHIP 1K 5%	1/16W
R54	1-216-837-11	METAL CHIP 22K 5%	1/16W
R56	1-216-797-11	METAL CHIP 10 5%	1/16W
R57	1-216-817-11	METAL CHIP 470 5%	1/16W
R60	1-216-797-11	METAL CHIP 10 5%	1/16W
R331	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R332	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R333	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R334	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R341	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R342	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R403	1-216-841-11	METAL CHIP 47K 5%	1/16W
R431	1-216-809-11	METAL CHIP 100 5%	1/16W
R432	1-216-841-11	METAL CHIP 47K 5%	1/16W
R433	1-216-833-11	METAL CHIP 10K 5%	1/16W
R434	1-216-809-11	METAL CHIP 100 5%	1/16W
R441	1-216-809-11	METAL CHIP 100 5%	1/16W
R442	1-216-841-11	METAL CHIP 47K 5%	1/16W
R443	1-216-833-11	METAL CHIP 10K 5%	1/16W
R444	1-216-809-11	METAL CHIP 100 5%	1/16W
R451	1-216-809-11	METAL CHIP 100 5%	1/16W
R452	1-216-841-11	METAL CHIP 47K 5%	1/16W
R453	1-216-833-11	METAL CHIP 10K 5%	1/16W
R454	1-216-809-11	METAL CHIP 100 5%	1/16W
R461	1-216-809-11	METAL CHIP 100 5%	1/16W
R462	1-216-841-11	METAL CHIP 47K 5%	1/16W
R463	1-216-833-11	METAL CHIP 10K 5%	1/16W
R464	1-216-809-11	METAL CHIP 100 5%	1/16W
R471	1-216-841-11	METAL CHIP 47K 5%	1/16W
R472	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R473	1-216-821-11	METAL CHIP 1K 5%	1/16W
R474	1-216-833-11	METAL CHIP 10K 5%	1/16W
R479	1-216-805-11	METAL CHIP 47 5%	1/16W
R480	1-216-864-11	METAL CHIP 0 5%	1/16W
R501	1-216-837-11	METAL CHIP 22K 5%	1/16W

Ref. No.	Part No.	Description			Remark
R502	1-216-813-11	METAL CHIP	220	5%	1/16W
R503	1-216-845-11	METAL CHIP	100K	5%	1/16W
R504	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R505	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R506	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R507	1-216-841-11	METAL CHIP	47K	5%	1/16W
R508	1-216-845-11	METAL CHIP	100K	5%	1/16W
R509	1-216-813-11	METAL CHIP	220	5%	1/16W
R510	1-216-809-11	METAL CHIP	100	5%	1/16W
R511	1-216-809-11	METAL CHIP	100	5%	1/16W
R512	1-216-809-11	METAL CHIP	100	5%	1/16W
R514	1-216-809-11	METAL CHIP	100	5%	1/16W
R515	1-216-809-11	METAL CHIP	100	5%	1/16W
R516	1-216-809-11	METAL CHIP	100	5%	1/16W
R517	1-216-809-11	METAL CHIP	100	5%	1/16W
R519	1-216-845-11	METAL CHIP	100K	5%	1/16W
R520	1-216-845-11	METAL CHIP	100K	5%	1/16W
R521	1-216-845-11	METAL CHIP	100K	5%	1/16W
R522	1-216-845-11	METAL CHIP	100K	5%	1/16W
R524	1-216-845-11	METAL CHIP	100K	5%	1/16W
R525	1-216-845-11	METAL CHIP	100K	5%	1/16W
R526	1-216-845-11	METAL CHIP	100K	5%	1/16W
R527	1-216-845-11	METAL CHIP	100K	5%	1/16W
R528	1-216-845-11	METAL CHIP	100K	5%	1/16W
R529	1-216-833-11	METAL CHIP	10K	5%	1/16W
R530	1-216-833-11	METAL CHIP	10K	5%	1/16W
R551	1-216-821-11	METAL CHIP	1K	5%	1/16W
R555	1-216-841-11	METAL CHIP	47K	5%	1/16W
R556	1-216-821-11	METAL CHIP	1K	5%	1/16W
R557	1-216-841-11	METAL CHIP	47K	5%	1/16W
R609	1-216-821-11	METAL CHIP	1K	5%	1/16W
R631	1-216-222-00	RES-CHIP	10K	5%	1/8W
R632	1-216-841-11	METAL CHIP	47K	5%	1/16W
R633	1-216-841-11	METAL CHIP	47K	5%	1/16W
R634	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R636	1-216-845-11	METAL CHIP	100K	5%	1/16W
R638	1-216-222-00	RES-CHIP	10K	5%	1/8W
R651	1-216-821-11	METAL CHIP	1K	5%	1/16W
R652	1-216-841-11	METAL CHIP	47K	5%	1/16W
R653	1-216-833-11	METAL CHIP	10K	5%	1/16W
R654	1-216-833-11	METAL CHIP	10K	5%	1/16W
R660	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R661	1-216-833-11	METAL CHIP	10K	5%	1/16W
R662	1-249-399-11	CARBON	33	5%	1/4W
R663	1-249-399-11	CARBON	33	5%	1/4W
R664	1-249-399-11	CARBON	33	5%	1/4W
R665	1-249-399-11	CARBON	33	5%	1/4W
R671	1-216-809-11	METAL CHIP	100	5%	1/16W
R672	1-216-809-11	METAL CHIP	100	5%	1/16W
R673	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R674	1-216-833-11	METAL CHIP	10K	5%	1/16W
R701	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R702	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R710	1-216-809-11	METAL CHIP	100	5%	1/16W
R711	1-216-809-11	METAL CHIP	100	5%	1/16W
		< SWITCH >			
S702	1-692-431-21	SWITCH, TACTILE (RESET)			
		< TUNER >			
TU10	A-3220-812-A	TUNER UNIT (TUX-020)			
		< VIBRATOR >			
X51	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz)			
X501	1-781-294-21	VIBRATOR, CRYSTAL (18.432MHz)			
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	A-3283-047-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C3	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C4	1-104-609-11	ELECT CHIP	100uF	20%	4V
C5	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C6	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C7	1-126-394-11	ELECT CHIP	10uF	20%	16V
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C9	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C10	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C11	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C13	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C14	1-125-837-00	CERAMIC CHIP	1uF	10%	6.3V
C15	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C16	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C18	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C19	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C22	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C23	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C24	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C25	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C26	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C27	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C28	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C29	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C30	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C31	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C34	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C35	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C36	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C37	1-126-393-11	ELECT CHIP	33uF	20%	10V
C38	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V

SERVO **SUB**

Ref. No.	Part No.	Description			Remark
C39	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C40	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C41	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C43	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C44	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN1	1-764-616-12	HOUSING, CONNECTOR (PC BOARD) 30P			
CN2	1-794-153-21	CONNECTOR, FPC (ZIF) 16P			
CN3	1-770-347-21	CONNECTOR, FPC 6P			
		< JUMPER RESISTOR >			
FB1	1-216-864-11	METAL CHIP	0	5%	1/16W
FB2	1-216-864-11	METAL CHIP	0	5%	1/16W
FB4	1-216-864-11	METAL CHIP	0	5%	1/16W
FB5	1-216-295-11	SHORT	0		
FB6	1-216-864-11	METAL CHIP	0	5%	1/16W
FB7	1-216-864-11	METAL CHIP	0	5%	1/16W
		< IC >			
IC1	8-759-699-98	IC uPD63711GC-8EU			
IC2	8-759-658-87	IC BA5810FP-E2			
		< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R			
		< RESISTOR >			
R3	1-216-797-11	METAL CHIP	10	5%	1/16W
R5	1-218-344-11	RES-CHIP	7.5K	5%	1/16W
R6	1-216-837-11	METAL CHIP	22K	5%	1/16W
R7	1-216-839-11	METAL CHIP	33K	5%	1/16W
R8	1-216-833-11	METAL CHIP	10K	5%	1/16W
R9	1-216-840-11	METAL CHIP	39K	5%	1/16W
R10	1-216-835-11	METAL CHIP	15K	5%	1/16W
R12	1-216-837-11	METAL CHIP	22K	5%	1/16W
R14	1-216-841-11	METAL CHIP	47K	5%	1/16W
R15	1-216-841-11	METAL CHIP	47K	5%	1/16W
R17	1-216-809-11	METAL CHIP	100	5%	1/16W
R18	1-216-809-11	METAL CHIP	100	5%	1/16W
R19	1-216-809-11	METAL CHIP	100	5%	1/16W
R20	1-216-809-11	METAL CHIP	100	5%	1/16W
R21	1-216-821-11	METAL CHIP	1K	5%	1/16W
R22	1-216-821-11	METAL CHIP	1K	5%	1/16W
R24	1-216-864-11	METAL CHIP	0	5%	1/16W
R25	1-216-864-11	METAL CHIP	0	5%	1/16W
R26	1-216-797-11	METAL CHIP	10	5%	1/16W
R29	1-216-833-11	METAL CHIP	10K	5%	1/16W
R30	1-216-833-11	METAL CHIP	10K	5%	1/16W
R31	1-216-789-11	METAL CHIP	2.2	5%	1/16W

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X1	1-781-759-21	VIBRATOR, CERAMIC (CHIP TYPE) (16.9344MHz)	
**********			
*	1-659-834-11	SUB BOARD	
		**********	
		< CONNECTOR >	
CN1	1-770-347-21	CONNECTOR, FPC 6P	
**********			
		MISCELLANEOUS	
		**********	
5	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER)	
201	X-3378-598-2	CHASSIS (OP) ASSY (including M901)	
207	1-659-880-11	MOTOR FLEXIBLE BOARD	
⚠210	8-820-103-11	PICK-UP, OPTICAL KSS-720A/C-RP	
212	1-676-707-21	PICK-UP FLEXIBLE BOARD	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M902	A-3291-674-A	MOTOR ASSY, SLED (SLED)	
M903	A-3315-039-A	MOTOR SUB ASSY, LD (LOADING)	
**********			
		ACCESSORIES	
		**********	
	3-236-849-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH)	
	3-236-850-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH)	
	X-3378-490-2	CASE (PANEL) ASSY (for FRONT PANEL)	
**********			

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.